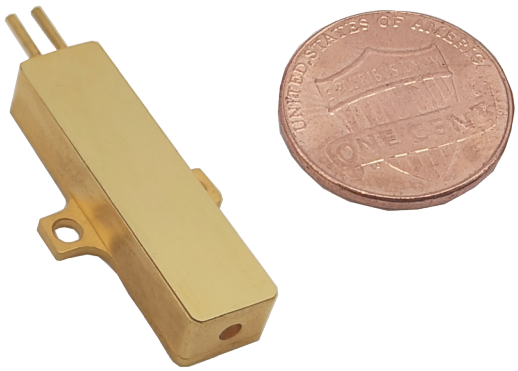
800-1000μJ 1535nm Erbium Glass Lasers



RealLight's 1535nm Erbium glass lasers operate in the eyesafe wavelength regime, have great advantages in applications including laser ranging and LiDAR. This series of lasers feature no tail pulse, stable pulse energy and excellent beam profile. The integrated design of diode-pumped module and laser crystal brings convenience to installation and integration due to the compact size. The output power of this series is up to 1mJ.

Technical Specifications

Wavelength (nm)	1535	
Pulse energy (μJ)	800	1000
Repetition rate (Hz)	10	5
Pulse width (typ., ns)	6	
Energy Stability (RMS)	3%	
Beam full divergence (mrad)	≤7	
Beam profile	TEM_{00}	
Operating current (A)	30	
Operating Voltage (V)	2	
Dimensions (L×W×H,mm)	32x8x7	
Weight (g)	13	
Operation temperature (℃)	-40~65	
Storage temperature (℃)	-45~80	

All the data in the above table are the typical values obtained from the tests at room temperature of 25℃, and the final data is subject to the final test report.

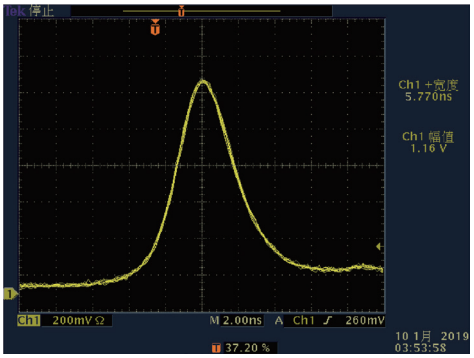
Applications

Laser rangefinder

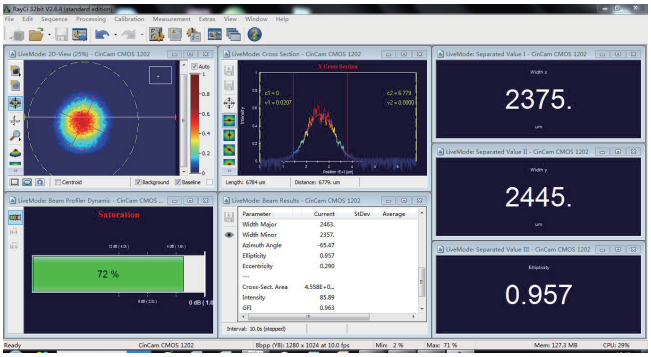
Meteorological radar

Key Features

- Passively Q-Switched, Er: Glass
- Eye-safe
- Extremely light
- Super compact design
- Wide operating temperature range



Typical Pluse

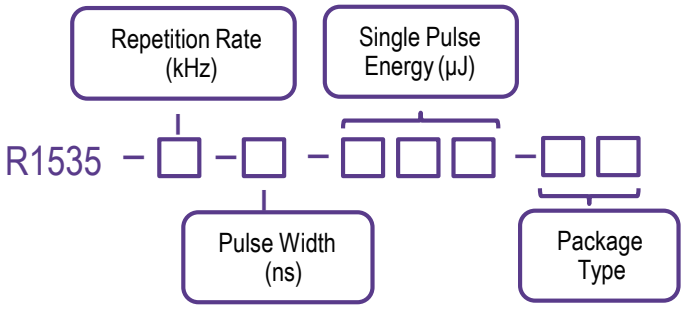


Beam Profile

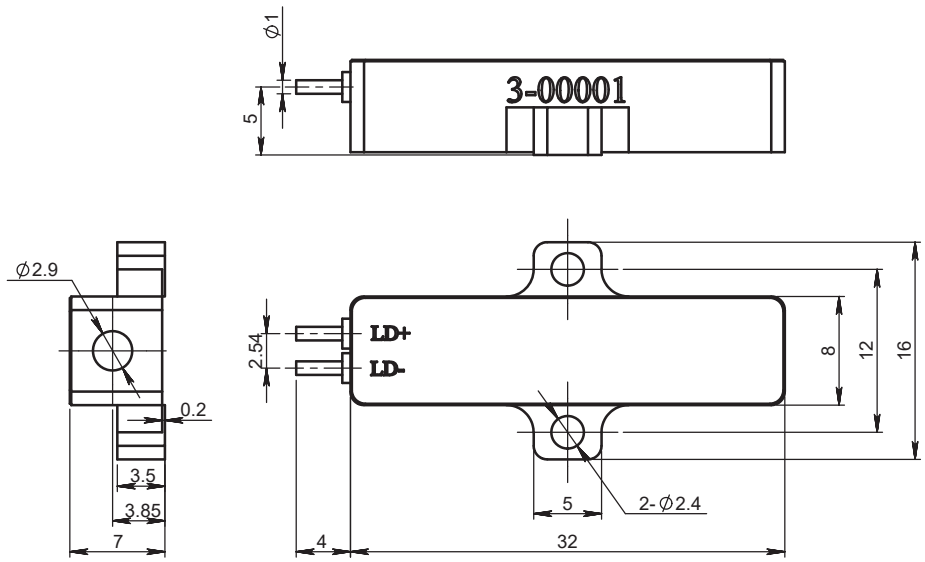
Order Information

Wavelength (nm)	Part Number	Repetition rate (Hz)	Pulse width (ns)	Pulse energy (μJ)	Dimensions (mm)
1535	R1535-0.01-6-800-F3A	10	6	800	32x8x7
	R1535-0.005-6-1000-F3A	5	6	1000	32x8x7

Part Numbering Schema



Mechanical Drawings (in mm)



F3A Drawing